

With the Author's Supplement

Annual Report

ON

✻ THE HEALTH ✻

OF THE

BOROUGH OF DEAL,

FOR THE YEAR

1897.



BY

RICHARD LYDDON,

Medical Officer of Health.

T. F. Pain, "Mercury" Commercial Printing Works, Deal.

To the Mayor, Aldermen and Councillors of the Borough of Deal.

GENTLEMEN,—

I beg to hand you my Annual Report for 1897, containing a statement of the vital statistics, and a summary of the Sanitary work carried out in the Borough during the year.

POPULATION.

The population, according to the Census of April, 1891, was 8,891. At the previous Census of 1881 it was 8,422. During that decade there was therefore an increase of 469, or practically 47 per annum. Presuming this increase to have remained constant, the estimated population in April, 1897, would be 9,173, and in July, the mid-period of the year taken for statistical purposes, 9,185.

BIRTHS.

During the year 228 births were registered, 126 males and 102 females, giving a birth-rate of 24·8 per 1000. This is much the same as last year, when 226 births were registered, and the birth-rate was 24·7.

The natural increase of population by births over deaths was 76.

DEATHS.

The number of deaths registered as occurring within the Borough was 153; of these 11 were visitors. Ten persons, formerly belonging to Deal, died in Eastry Union, at the average age of 78. By adding these and eliminating the deaths occurring among visitors, the number remains practically the same, viz., 152, 71 of which were males and 81 females, giving a death-rate of 16·5 per 1000. This is an increase on the previous year, when the death-rate was 14·7; this may be accounted for by the number of deaths occurring among the aged, no less than 34 being ascribed to old age. There were 7 deaths from Zymotic disease, all occurring among children, 4 from Diphtheria, and 3 from Diarrhœa, giving a Zymotic death-rate of 0·7 per 1000.

The rate of Infant Mortality, *i.e.*, the proportion of deaths occurring among infants under a year to births registered is 92·1 per 1000.

In the following Schedule the rates for the whole of England and Wales are compared with those of Deal for the year, and for further comparison the rates of Deal for 1896, are added.

	Birth Rate.	General Death Rate.	Urban Death Rate.	Zymotic Death Rate.
England and Wales, 1897	29·7	17·4	18·2	2·15
Deal, 1897 	24·8	16·5	16·5	0·7
Deal, 1896 	24·7	14·7	14·7	0·9

DEATHS BY VIOLENCE & MISADVENTURE.

One death is recorded of a man from being run over, and one of a child from the effects of burns. There was one suicide from hanging.

INFECTIOUS DISEASE (Notification) ACT.

Under this Act 42 cases were notified to the Medical Officer, comprising 17 Diphtheria, 10 Scarlet Fever, 9 Enteric Fever, and 6 Erysipelas. These cases were all investigated by the Sanitary Officers.

WATER.

Since my last report the Water undertaking has become the property of the Town, the Corporation having acquired the rights of the then existing Water Company. The water is drawn from Adits in the chalk, and is of excellent quality, its only fault being its hardness. Arrangements have been made for Periodical Analyses of the water, both Chemical and Bacteriological, so that any impurity may be at once detected. Appended is a copy of the last Analysis received by the Sanitary Authority :—

THE LABORATORY,
11, Billiter Square, E.C.,
London, October 21st, 1897

REPORT

on a Sample of Water received on October 12th, from W. R. Hammond, Esq., Water Works, Deal.

The sample which, I am informed, was taken from a Service Pipe in the town of Deal, was perfectly bright and clear, and when viewed through a stratum two feet in depth, showed a distinct bluish colour.

The Chemical Analysis gave the following results, which express the composition of 100,000 parts of the supply ;

Chlorine...	...	...	...	2.72
Sulphuric acid	...	...	...	0.76
Nitric acid	...	...	...	2.00
Silica	...	...	...	0.72
Carbonic acid (combined)	...			9.29
Oxide of Iron	...	...	...	0.26
Lime	...	...	...	12.63
				Total Lime 13.41

Calcium	...	...	...	...	0.56	
Magnesia	...	...	...	...	0.55	
Sodium	...	...	...	...	1.11	equal Soda 1.50

Total dissolved mineral constituents 30.60

Free Ammonia 0.0047

Albuminoid Ammonia... .. 0.0039

Oxygen absorbed from permanganate

in 15 minutes 0.0025

Ditto in four hours, both at 80 F 0.0260

Total Hardness 25.3 equal to 17.7 Clark

The mineral constituents occur in the water in the following forms of combination :—

Sodium chloride 2.82

Calcium chloride 1.57

Calcium sulphate 1.29

Calcium nitrate 3.04

Calcium carbonate 19.75

Magnesium carbonate 1.15

Silica 0.72

Oxide of Iron 0.26

Total mineral constituents ... 30.60

The analysis shows clearly that the supply has all characters of a pure chalk water. It contains notable amounts of dissolved lime-salts, mainly calcium carbonate (chalk), and is, in consequence, somewhat hard. It is practically free from organic matter, as shown not only by the analysis, but also by the blue colour, which in itself is a sign of purity.

As far as chemical analysis is capable of deciding, the supply is quite free from all animal contamination.

This conclusion is confirmed by a Bacteriological examination. This showed the supply to be practically sterile.

I am of opinion that the supply is of excellent quality. Its only defect is its hardness, a defect which it shares with all waters coming from the chalk formation.

OTTO HEHNER,

Public Analyst.

DRAINAGE.

The plans submitted by Mr. Baldwin Latham for the drainage of the whole of the Borough, have been accepted by the Council, therefore we may expect shortly to see the work carried out. At present the sewage passes into the sea by two outfalls, one at the south and one at the north end of the town. The new system will do away with these, carry off the storm water which now at times troubles the low lying parts of the district, and drain the undrained area of Upper Deal.

ISOLATION HOSPITAL.

This matter still remains in abeyance, and must do so until the new system of drainage for the whole district is carried out. Some three years ago a site was chosen in Upper Deal, and plans for the building of a Hospital submitted to the Local Government Board. The site was condemned on account of its close proximity to the water supply of the district.

A hospital for Infectious Disease, disposing of its sewage by irrigation over the surrounding land, is not desirable in the neighbourhood of water adits, therefore, unless another site can be procured, the hospital must wait for the drainage.

SANITARY INSPECTOR'S WORK.

Appended is a summary of the work carried out by Mr. Golder in the Sanitary Inspector's Department.

Deal, March 29th, 1898.

Dr. Lyddon,
Medical Officer of Health.

Deal.

DEAR SIR,—I beg to submit a short report on the inspections made, and sanitary works done during the past twelve months, as follows:—

Progress has been made with the systematic inspection of the town, and upwards of 230 premises have been visited by the

Assistant Inspector, also a large number of inspections apart from house-to-house work, including the Slaughter-houses, Factories, Cow-sheds, Common Lodging-houses, &c., &c., and 204 notices have been sent for the abatement of nuisances, and the execution of Sanitary Improvements.

The following is a list of the principal nuisances abated, and sanitary defects remedied:—

Thirty scullery sinks have been disconnected from the drains, 32 new gulley traps put for the drainage of yards, &c., 9 new closet pans fixed in place of defective ones, 12 closets provided with flushing tanks, 6 back yards have been repaved, 6 middens done away with, and the drains of 57 premises have been thoroughly ventilated.

The disinfecting oven has been periodically examined by the Boiler Inspector, and has been tested once, under pressure, and found to be in good working order. I may also mention that in every case in which this apparatus has been used during the year it has been most effectual and entirely satisfactory.

I remain, Sir,

Yours faithfully,

THOS. C. GOLDER.

Borough Surveyor, &c.

MORTALITY STATISTICS.

I conclude with a table of Mortality Statistics which will show at a glance the details incorporated in my report. The first portion of the table deals with the total number of births and deaths, and the deaths occurring at different periods of life. The second portion deals with the principal diseases, and the number of persons dead of each disease. The third portion gives the general birth and death rates, the Zymotic death-rate and the rate of Infant Mortality.

I remain, Gentlemen,

Your obedient servant,

RICHARD LYDDON,

Medical Officer of Health.

Deal, March 29th, 1898.



Digitized by the Internet Archive
in 2017 with funding from
Wellcome Library

<https://archive.org/details/b29153864>

MORTALITY STATISTICS

For the Borough of Deal, for the Year ending 31st December, 1897.

	BIRTHS.		DEATHS.		DEATHS OF PERSONS AGED.								SEVEN PRINCIPAL ZYMOTIC DISEASES.		DEATHS FROM								DEATHS FROM DISEASES OF THE RESPIRATORY ORGANS AND OTHER DISEASES.															ANNUAL RATE PER 1000 PERSONS LIVING					
	Females	Males			0—1 year.	1—5 years.	5—15 years.	15—25 years.	25—65 years.	65 years and upwards.	Under 5 years.	5 years and upwards.			Small Pox.	Measles.	Scarlatina.	Diphtheria.	Whooping Cough.	Fever (Typhus, Enteric, or Simple).	Diarrhoea.	Deaths occurring among Persons not belonging to District.	Deaths occurring out of District among Persons belonging thereto	Respiratory Organs.	Nervous System.	Circulatory System (Heart, &c.)	Digestive System.	Renal Diseases.	Pathosis.	Cancer.	Accident & Misadventure.	Suicide.	Alcoholism.	Premature Birth.	Old Age.	Rheumatism.	Influenza.	Other Diseases.	Births	Deaths.	Deaths from Zymotic Disease.	Deaths from Diseases of Respiratory Organs, including Consumption.	Deaths under 1 year to 1000 Births Registered.
Total	228	152	21	6	3	8	43	71	27	125	5 years & upwards						4		3	11	10	21	7	14	10	8	20	7	2	1	1	5	34		15	24.8	16.5	0.7	4.4	92.1			
	102	81	6	5	2	4	27	37	11	70	F	M					1		1	5	7	8	1	6		5	10	2	1	1		18		2									
											under 5 years & upwards	F	M						1	1	2	1		1					1						3								

RICHARD LYDDON, Medical Officer of Health.

er, 1897.

E RESPIRATORY SEASES.					ANNUAL RATE PER 1000 PERSONS LIVING				
Premature Birth.	Old Age.	Rheumatism.	Influenza.	Other Diseases.	BIRTHS.	DEATHS.	Deaths from Zymotic Disease.	Deaths from Diseases of Respiratory Organs, including Consumption.	Deaths under 1 year to 1000 Births Registered.
5				3					
				2					
	18			2					
	16			8					
5	34			15	24·8	16·5	0·7	4·4	92·1

cer of Health.

